

ABSTRACT

In order to realize with a low loss a hybrid structure in which an NRD guide is used for a transmission part and a microstrip line is used for a circuit element loading part, the present invention comprises: a dielectric waveguide (1) which is sandwiched between parallel conductor plates and has a gap which is less than a $1/2$ wavelength; a microstrip line (4) which is provided on a side surface of a metal rod (3) opposite to the dielectric waveguide (1), the metal rod (3) being adjacently arranged in parallel with the dielectric waveguide (1); and a coaxial line (5) which pierces the metal rod (3) and connects the dielectric waveguide (1) with the microstrip line (4).